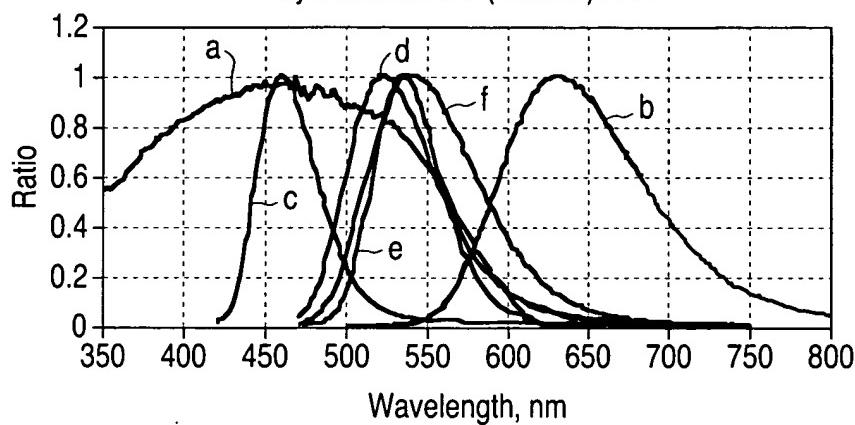


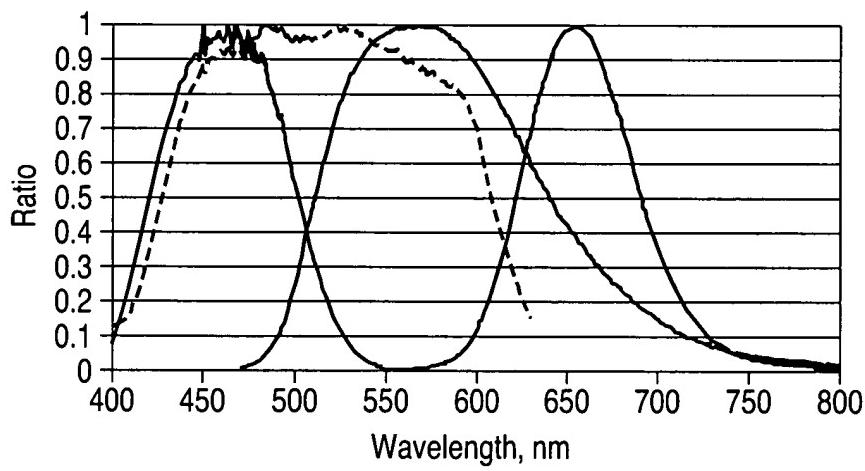
FIG. 1  
(PRIOR ART)

Excitation and emission of phosphors excitable  
by blue/near UV (400 nm) LED



**FIG. 2**

Excitation and emission of YAG:Ce and CaS:Eu



**FIG. 14**

Title: Wavelength Converted Semiconductor Light Emitting Devices

Inventors: Gerd O. Muller et al.

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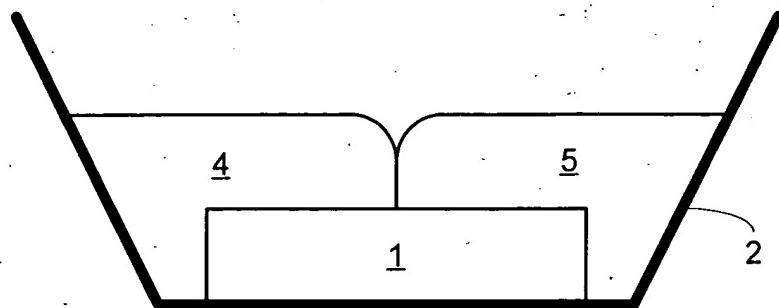


Fig. 3

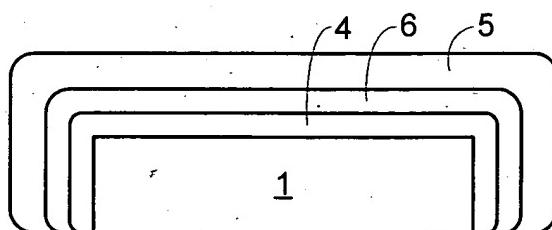


Fig. 4

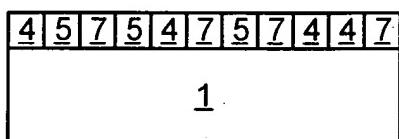


Fig. 5

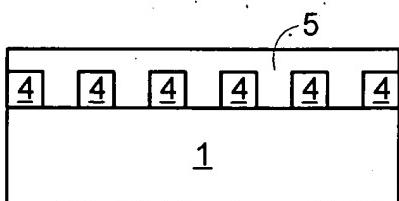
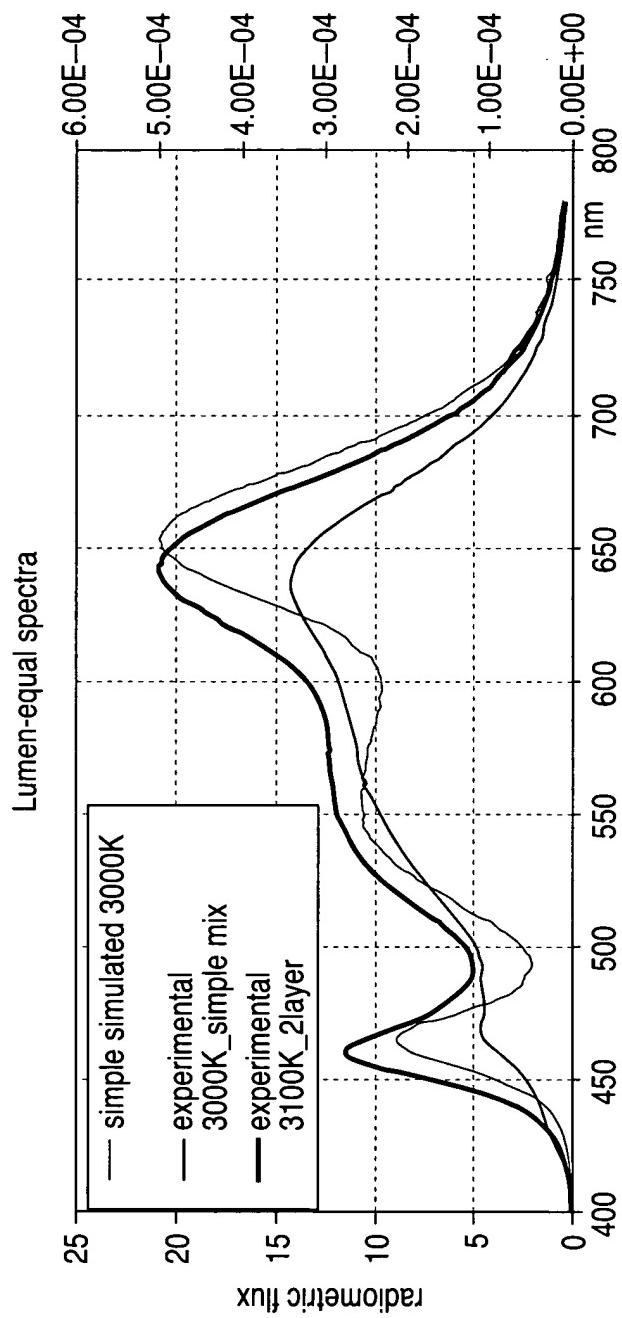


Fig. 6

**FIG. 7**

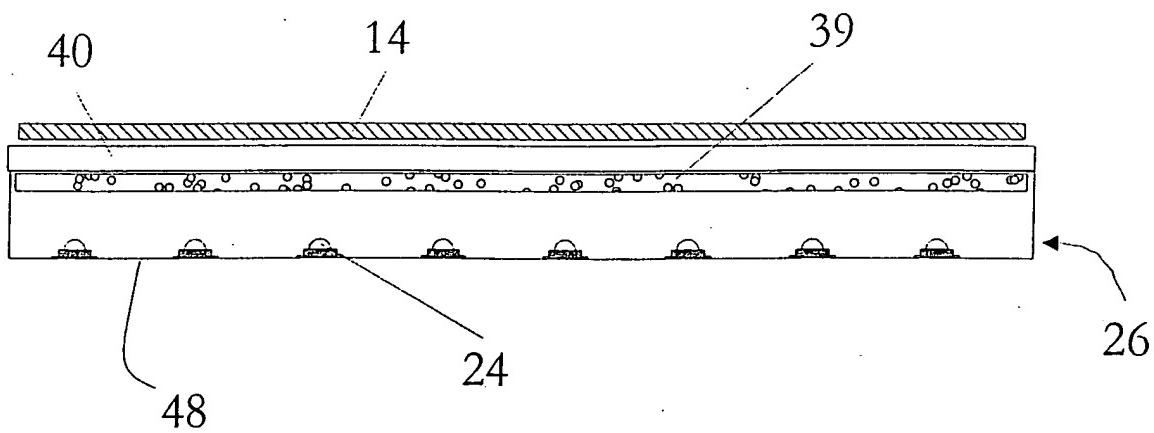
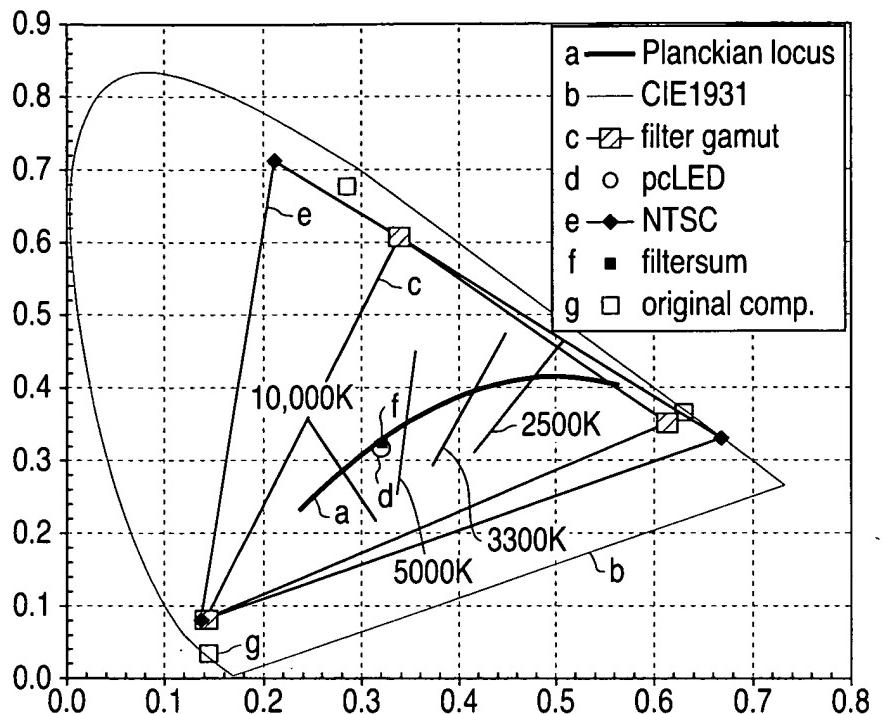
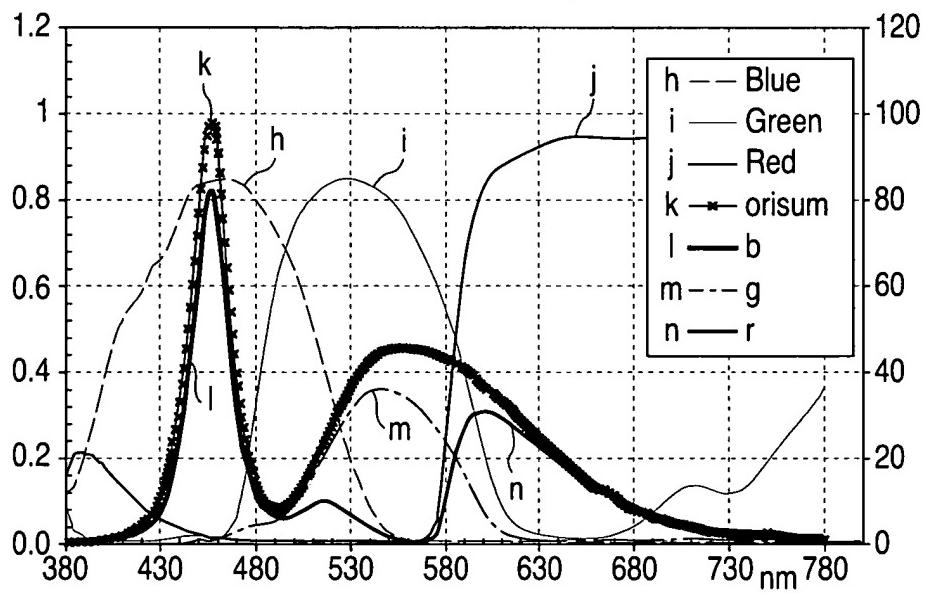


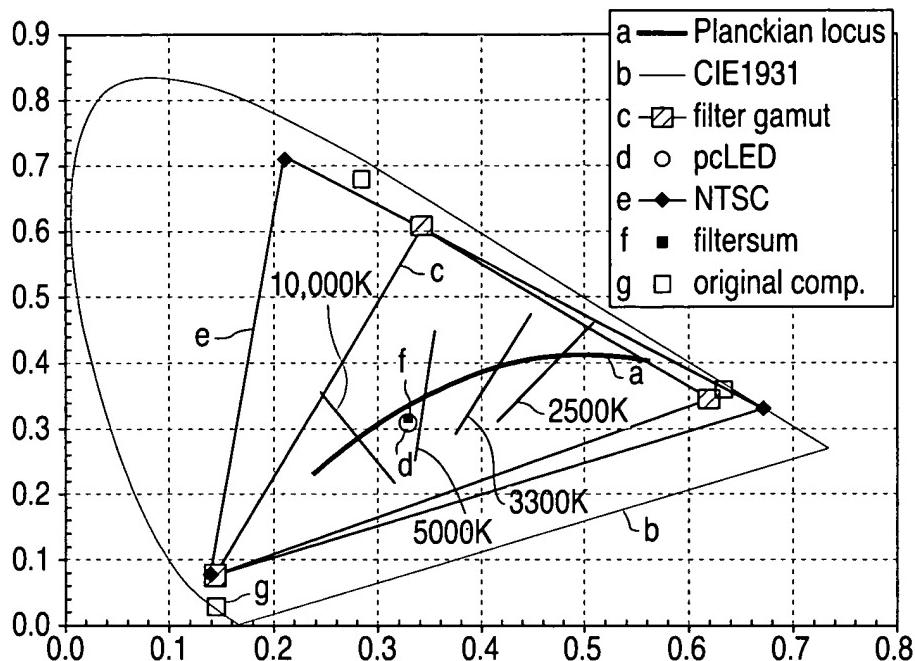
FIG. 8



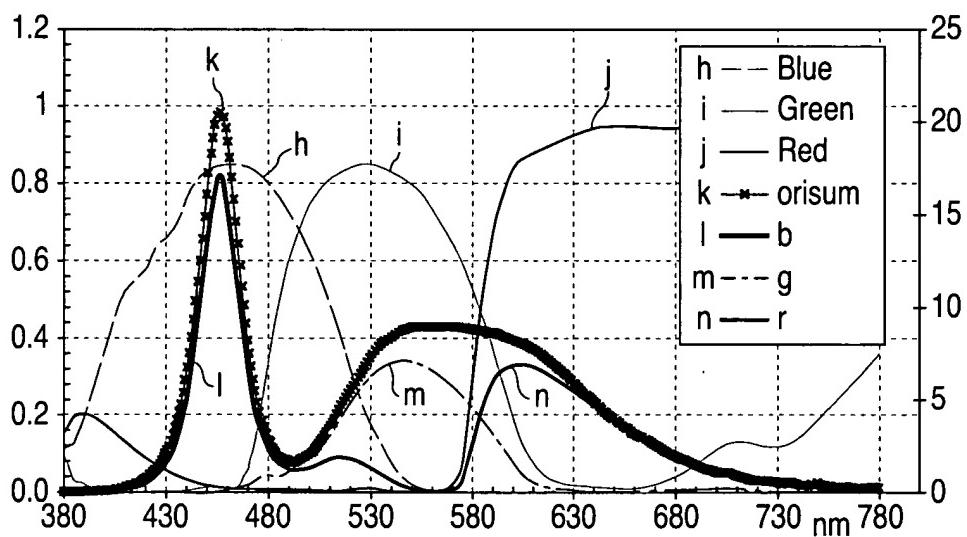
455+YAG:Ce

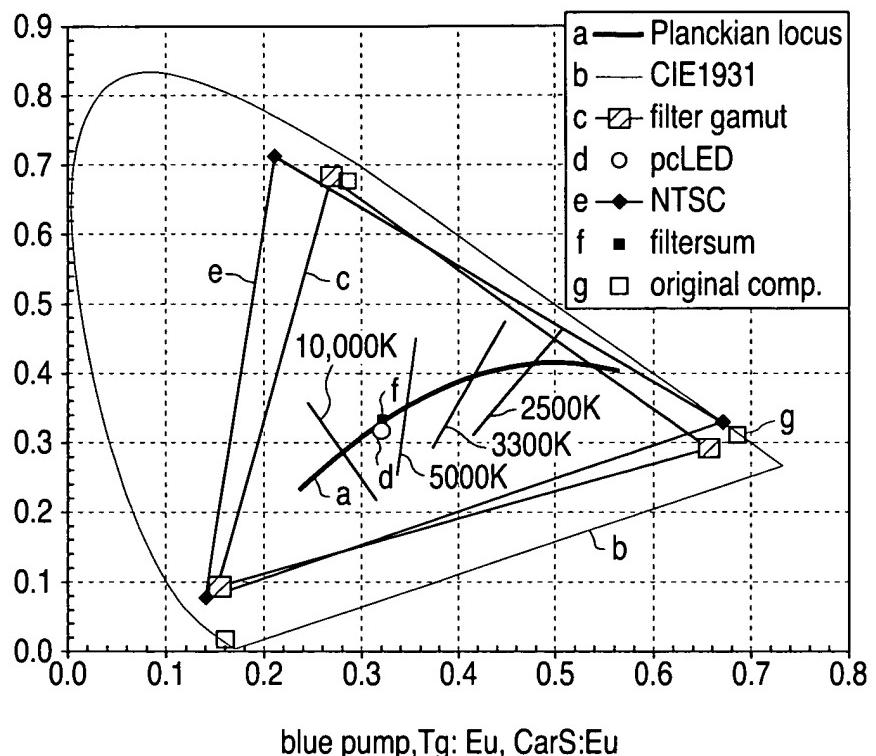


**FIG. 9**

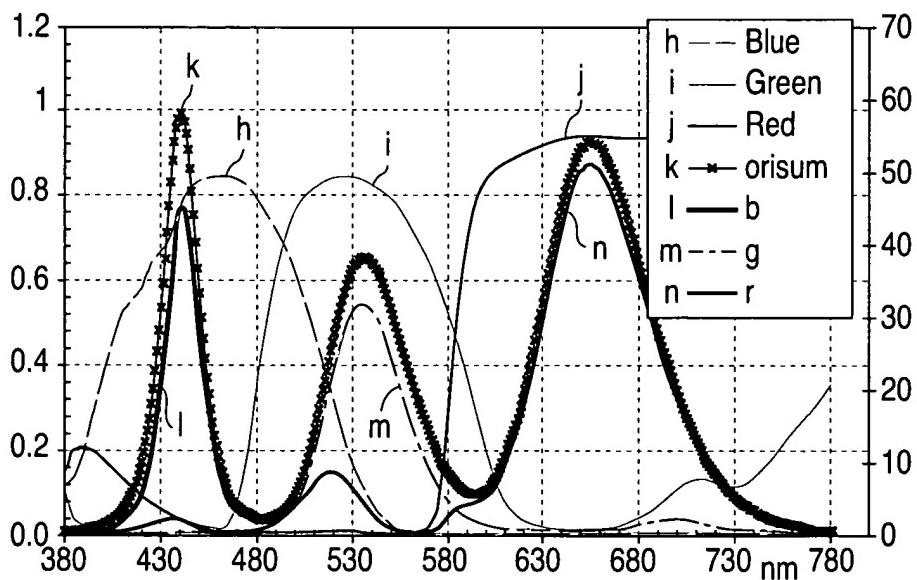


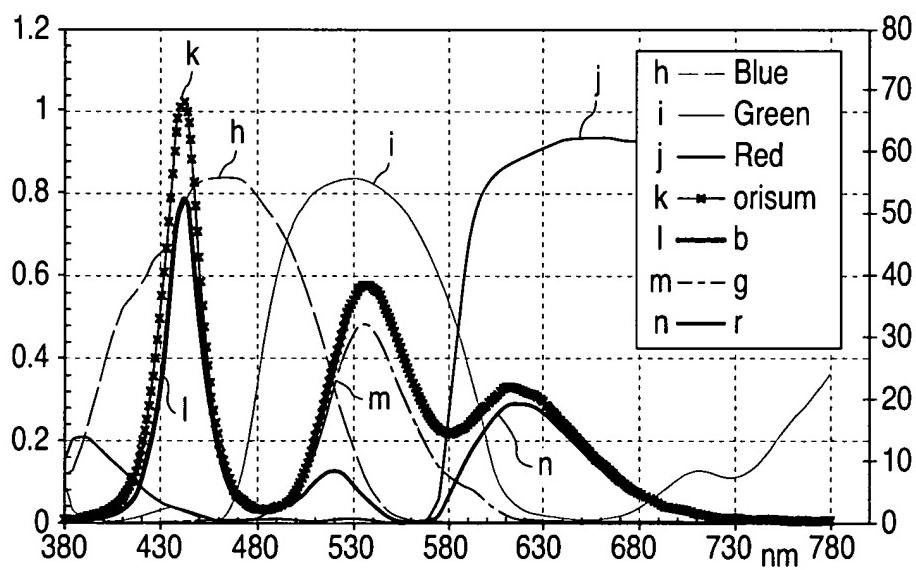
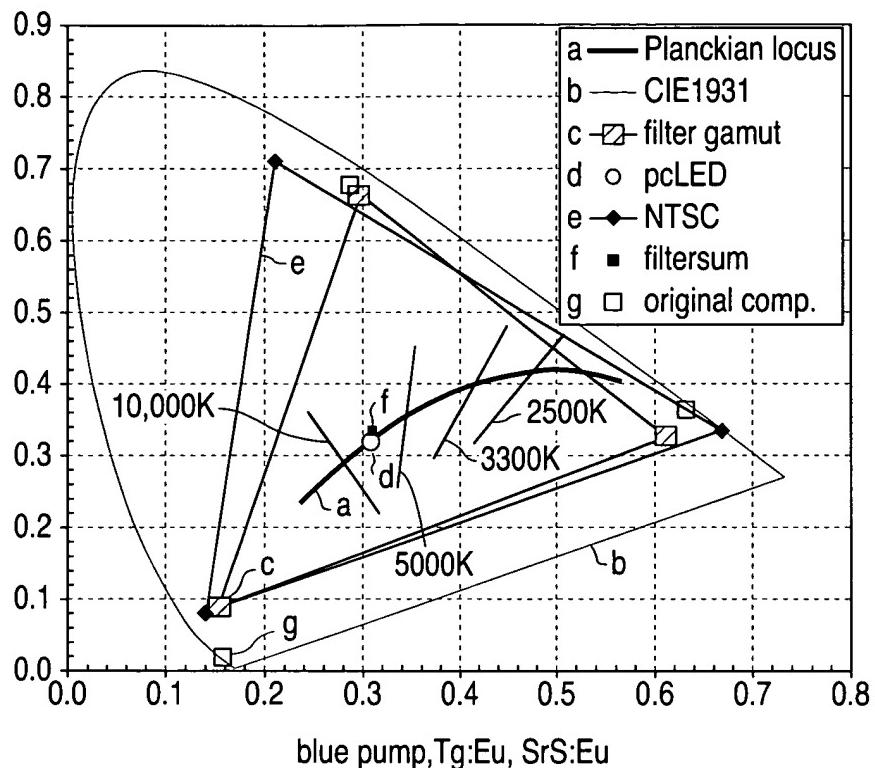
455+YAG:Ce+SrS:Eu

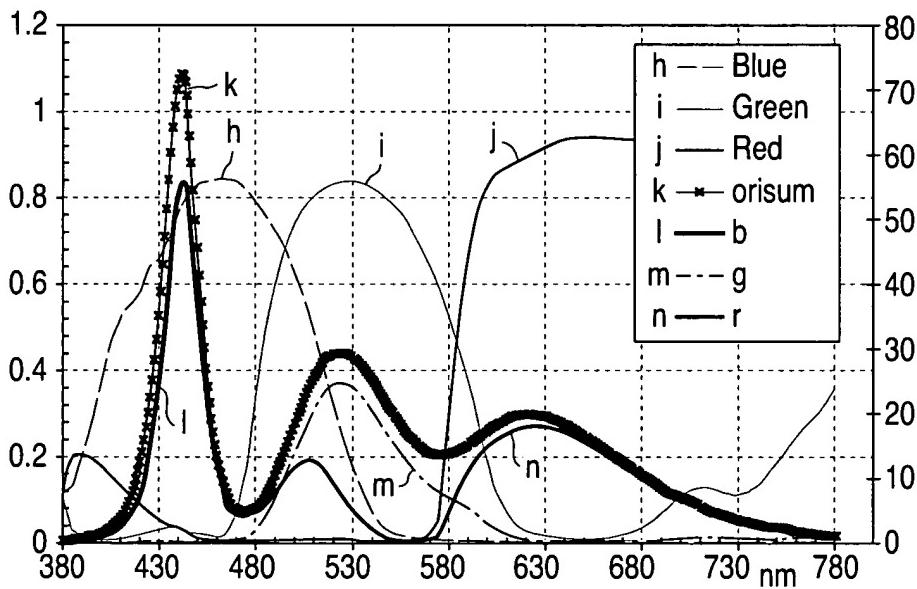
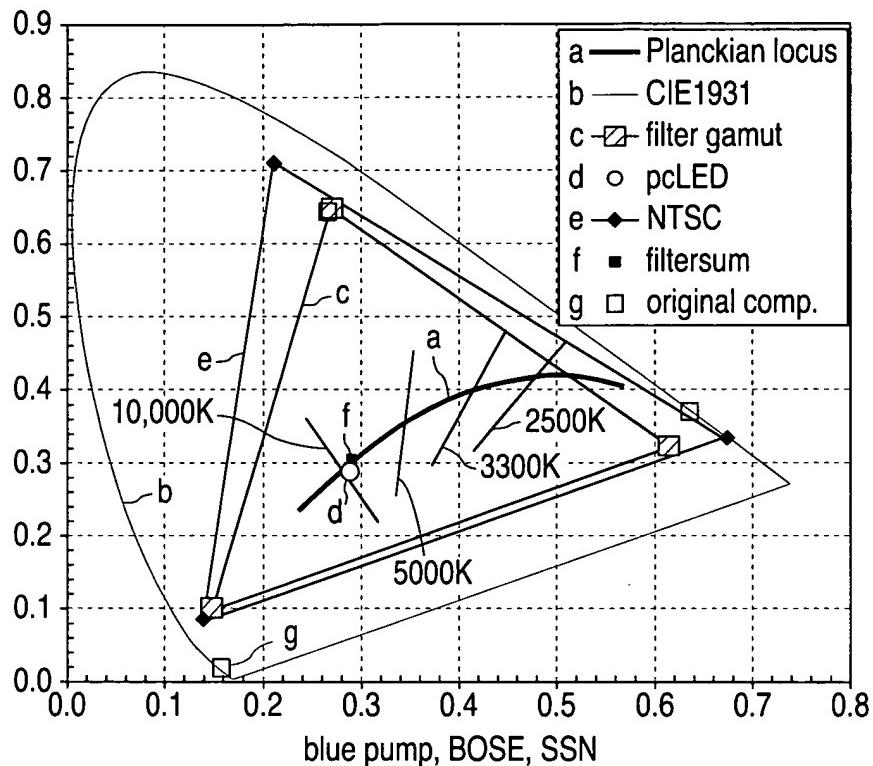
**FIG. 10**

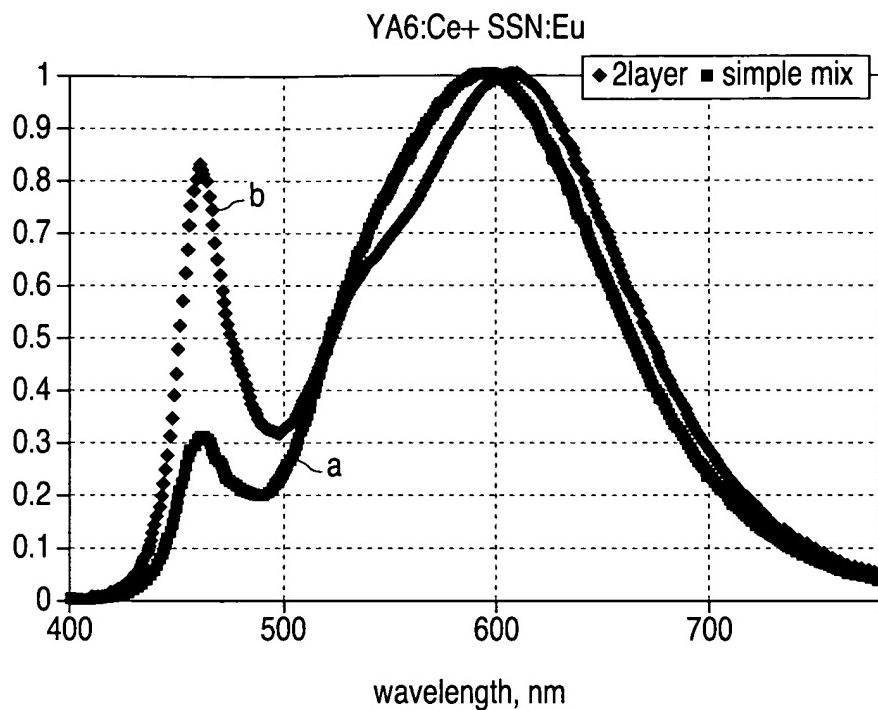


blue pump,Tg: Eu, CarS:Eu

**FIG. 11**

**FIG. 12**

**FIG. 13**



	2layer	mix	Ra
CRI	87	75	
	88	71	
	98	81	
	94	92	
	82	71	
	87	69	
	94	74	
	83	86	
	71	57	
R9	39	-9	
	91	55	
	79	64	
	73	40	
	92	72	
	98	95	
LE,lm/W	296	343	
CCT	3250	3100	

**FIG. 15**